OIPE JC119 OCT 16 2003 PATENT & TRADEMARK OFFICE

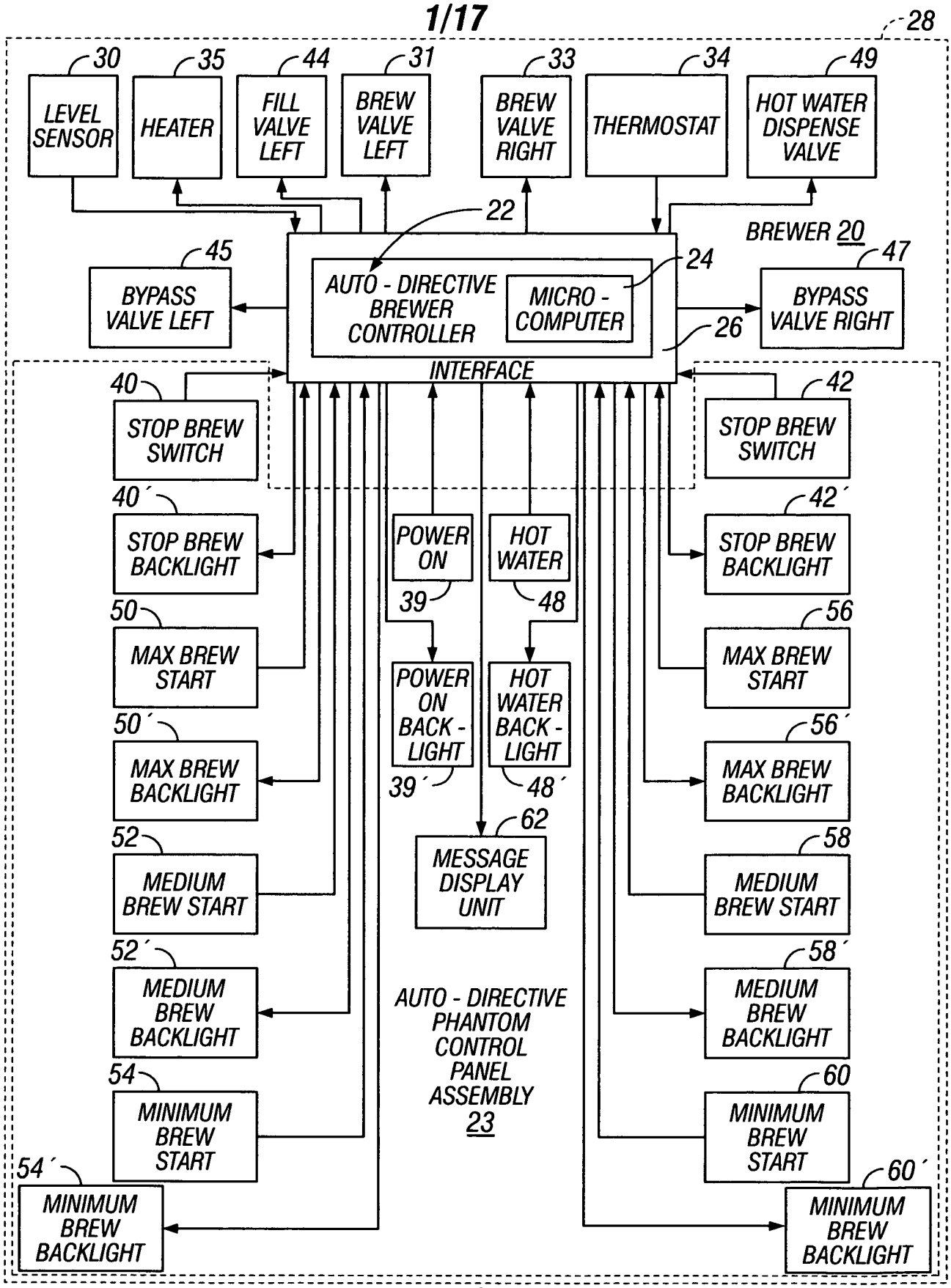

FIG. 1

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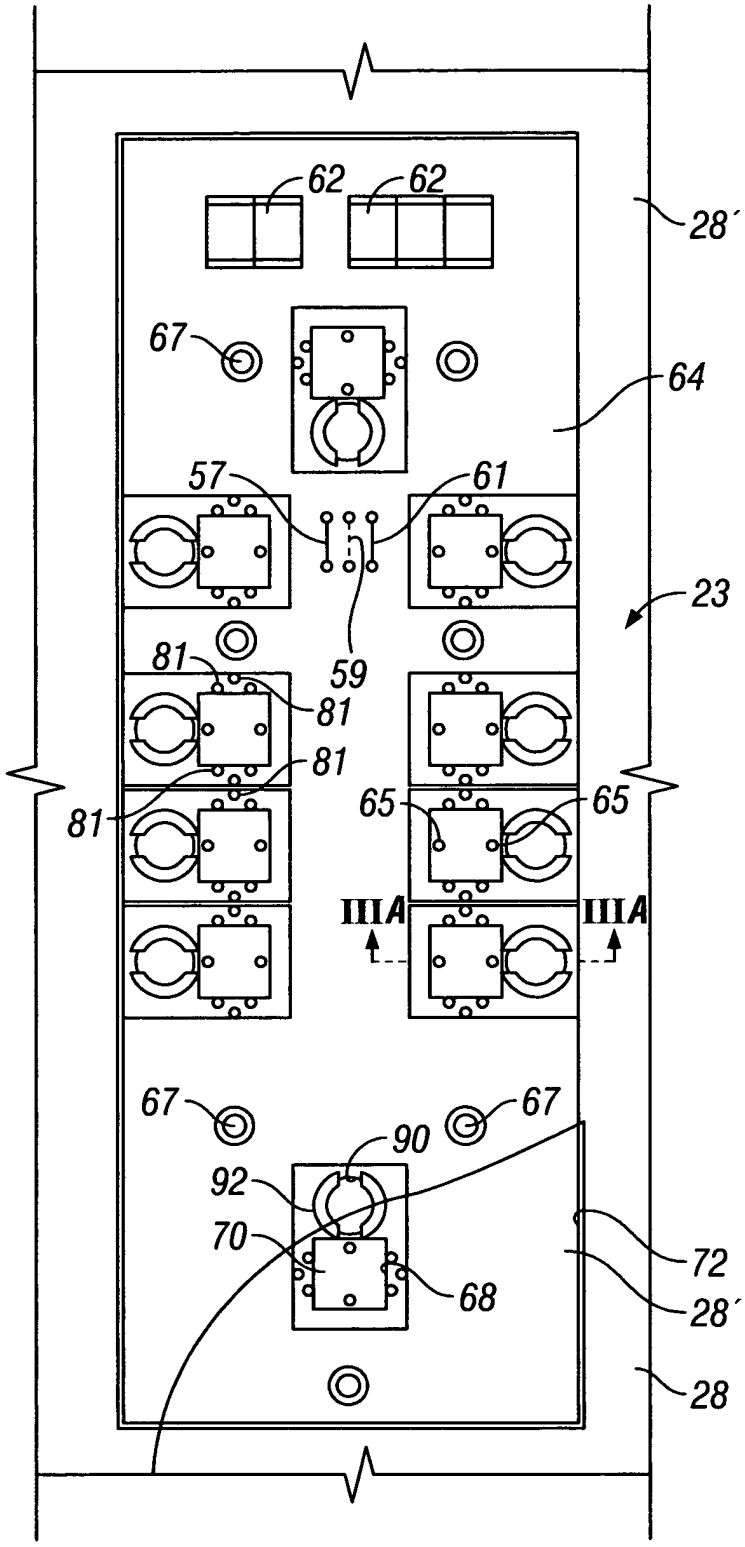

FIG. 2

OIPE
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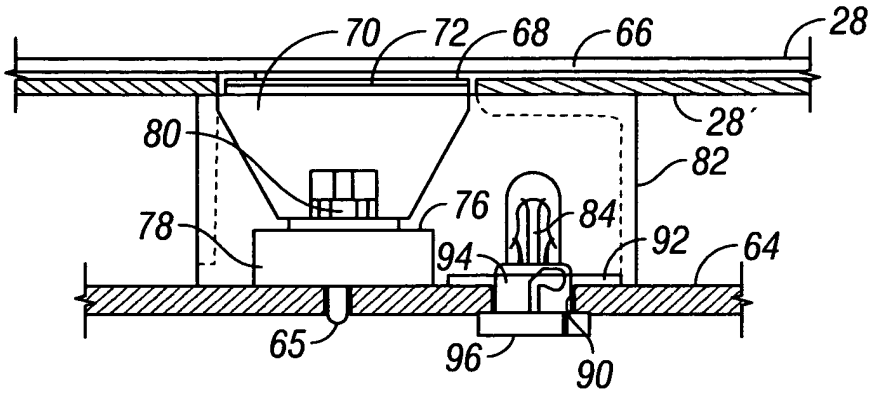

FIG. 3A

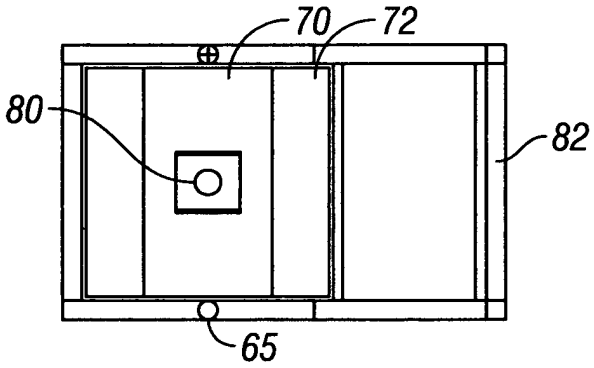

FIG. 3B

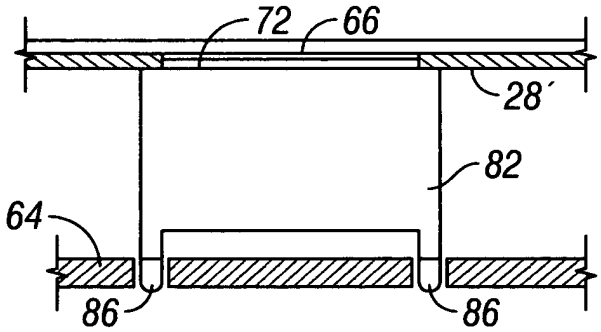

FIG. 3C

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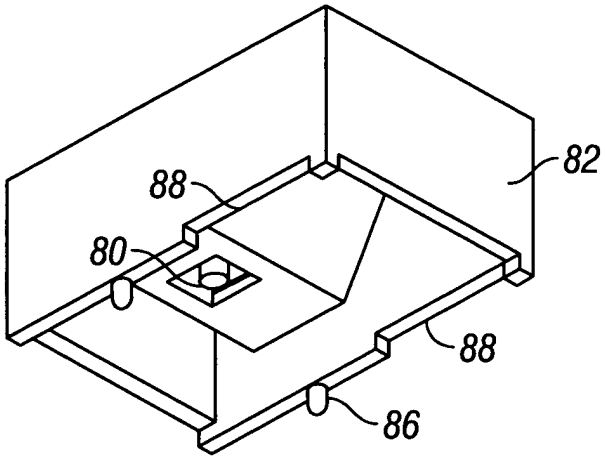

FIG. 3D

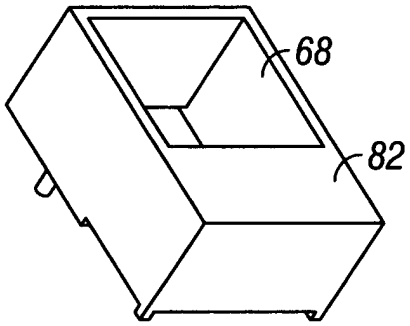

FIG. 4A

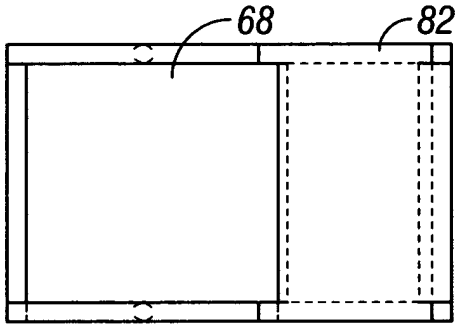

FIG. 4B

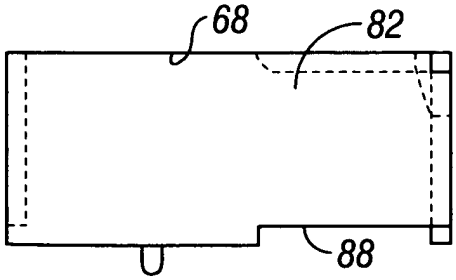

FIG. 4C

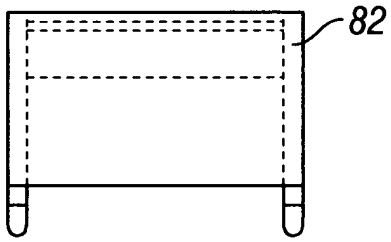

FIG. 4D

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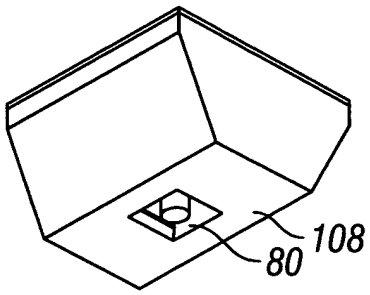

FIG. 5

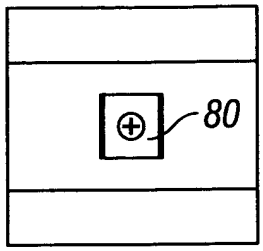

FIG. 6A

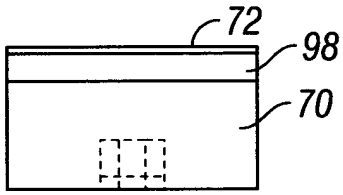

FIG. 6B

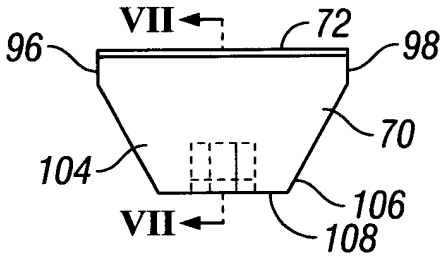

FIG. 6C

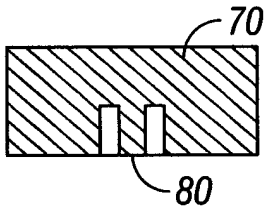

FIG. 7

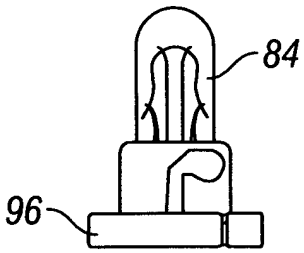

FIG. 8A

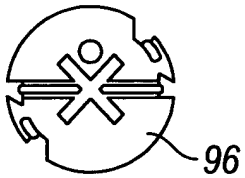

FIG. 8B

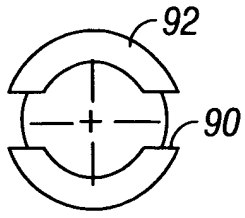

FIG. 9

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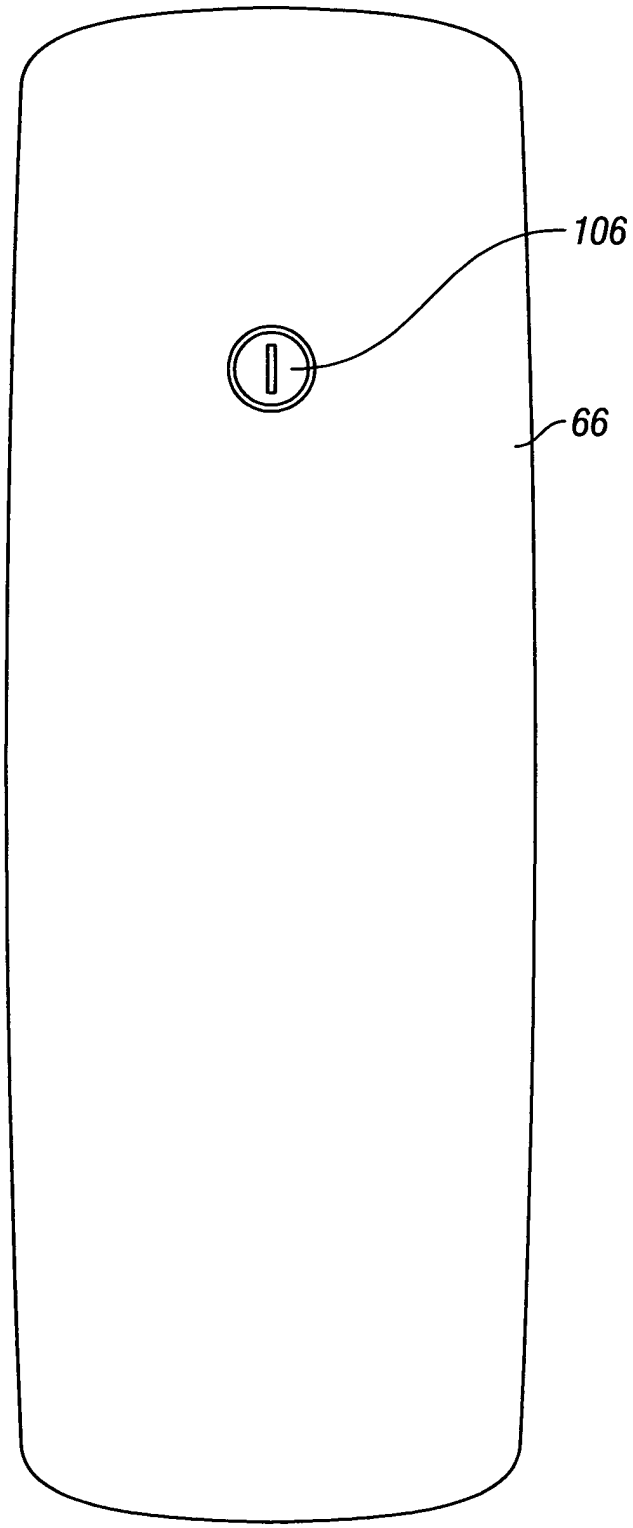

FIG. 10

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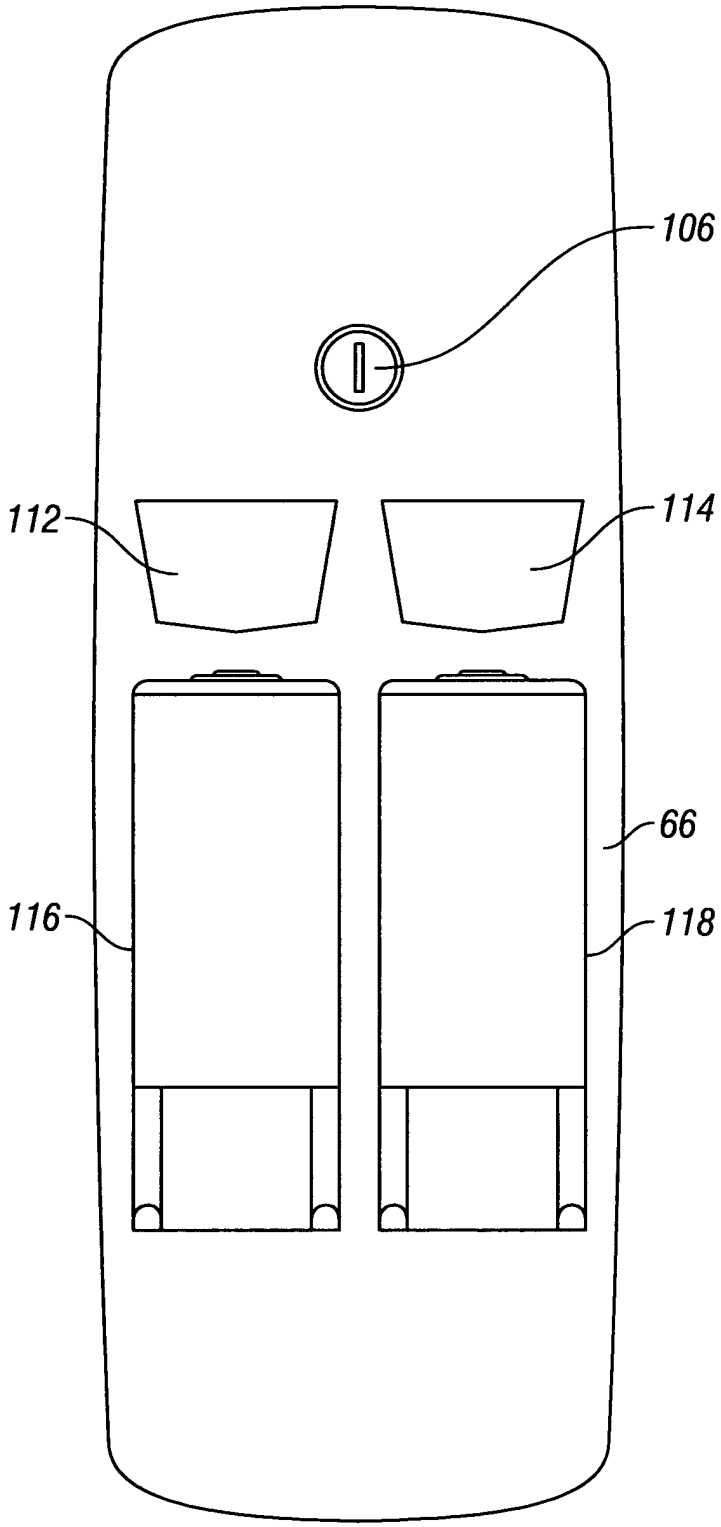

FIG. 11A

OIPE
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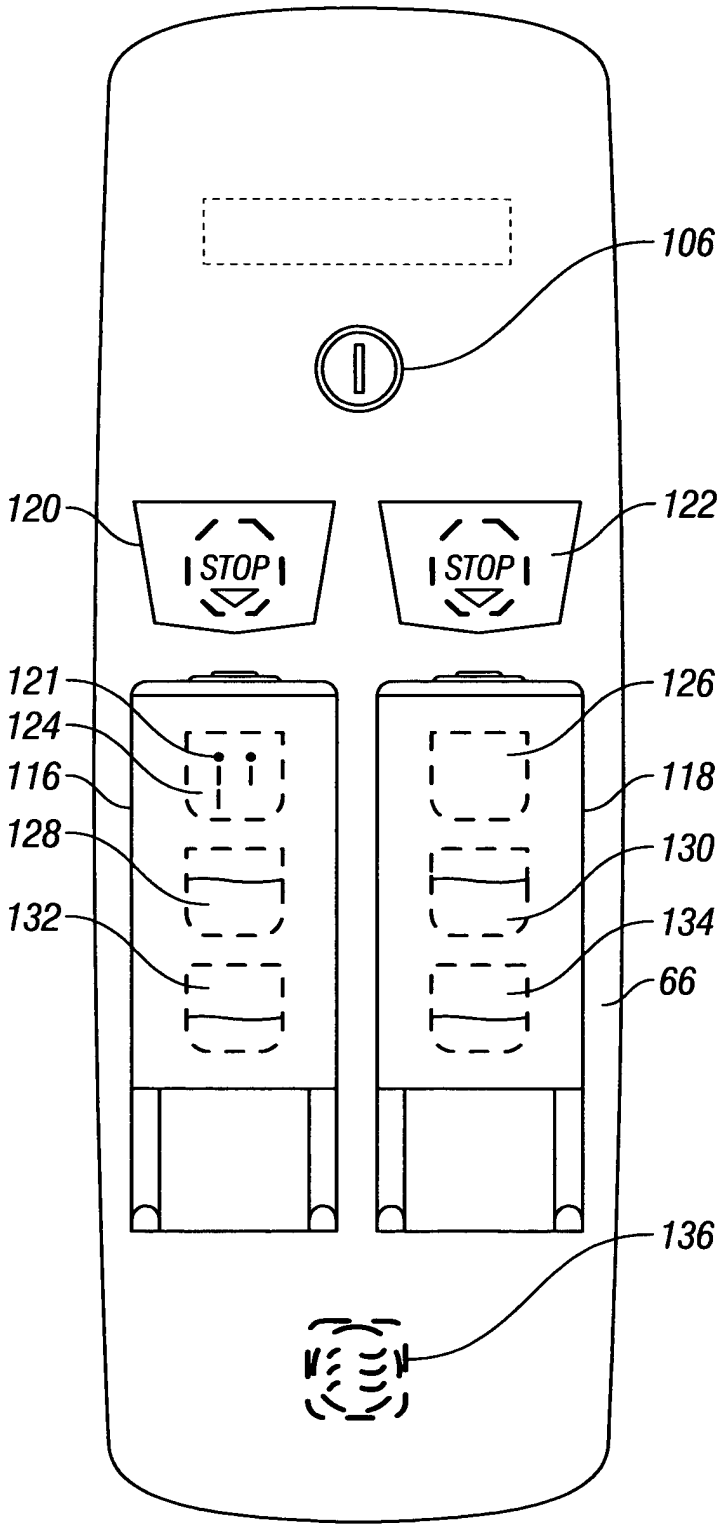

FIG. 11B

OCT 16 2003
PATENT & TRADEMARK OFFICE

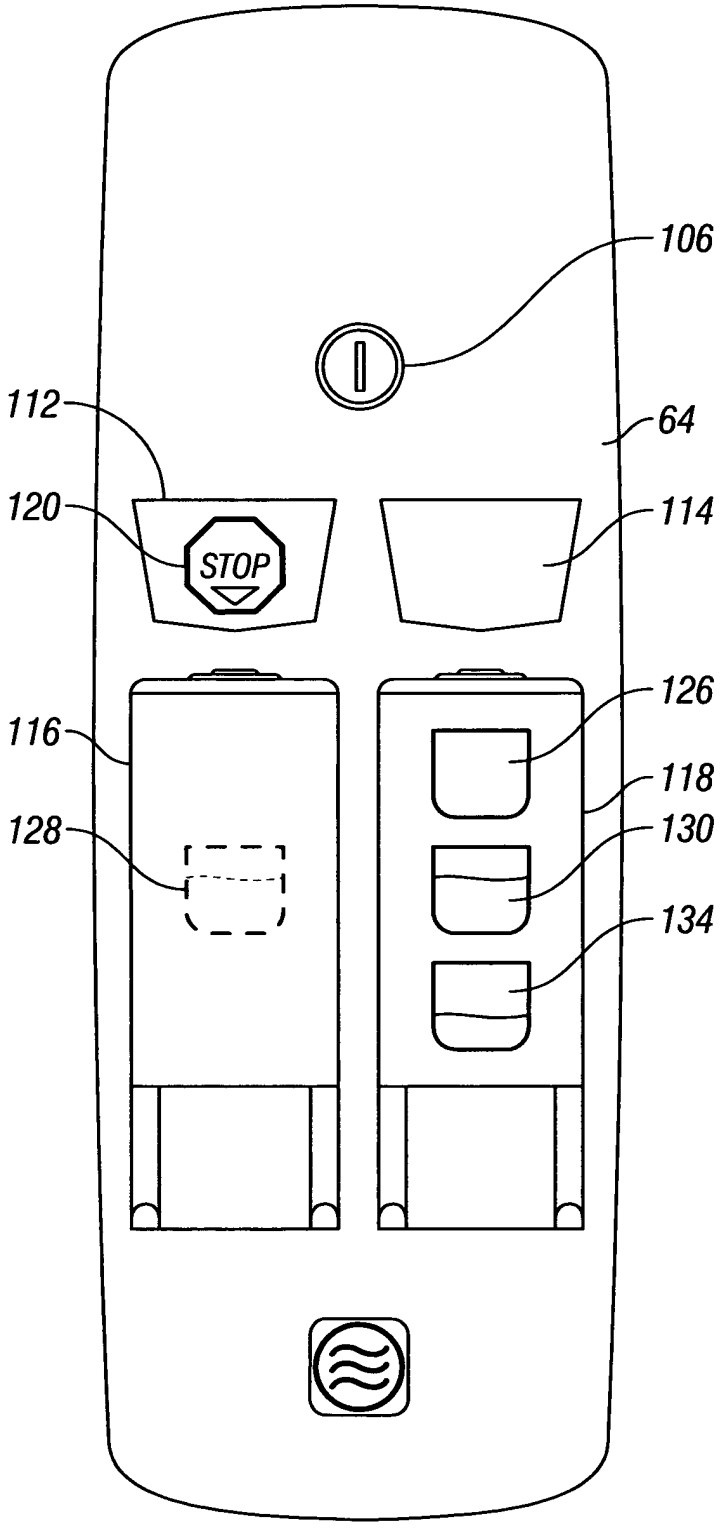

FIG. 11C

OIPE JC19
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PATENT & TRADEMARK OFFICE

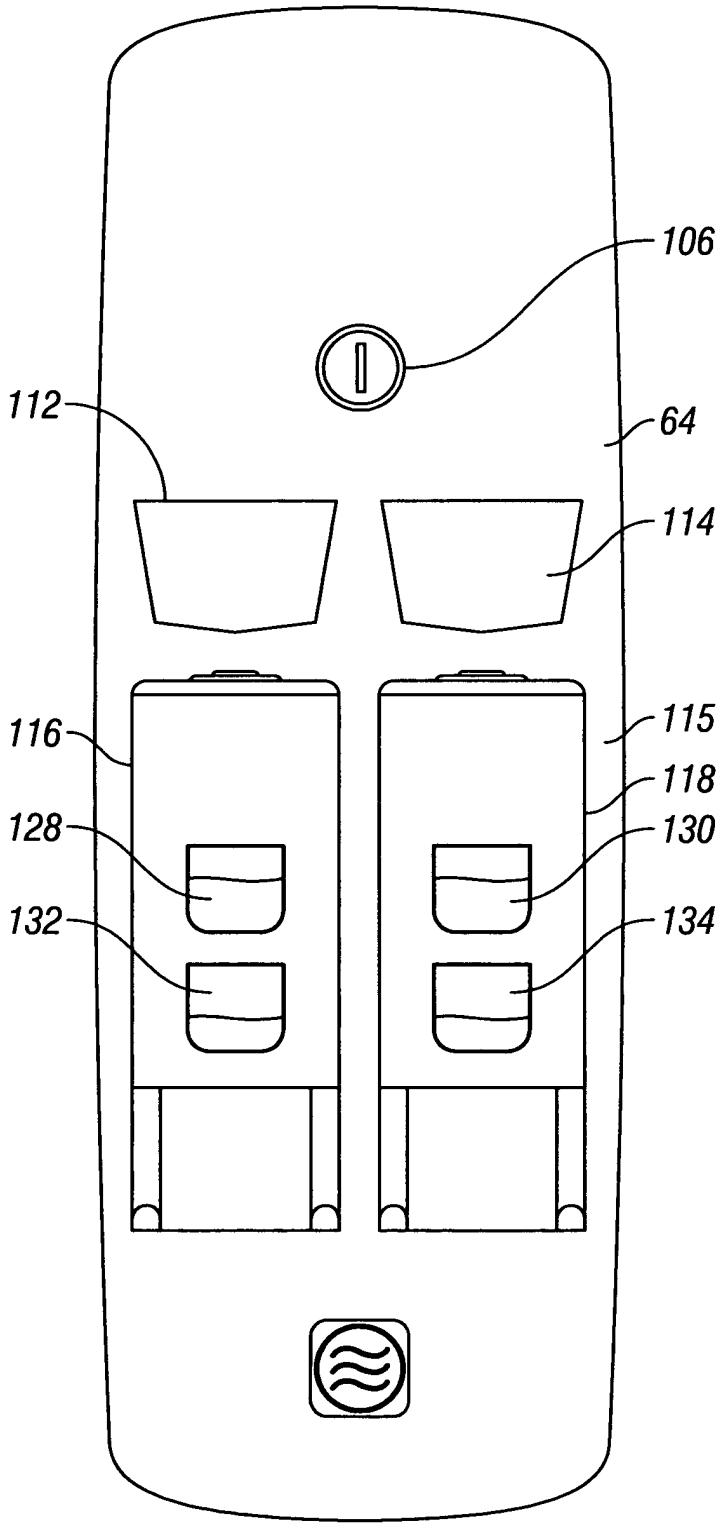

FIG. 11D

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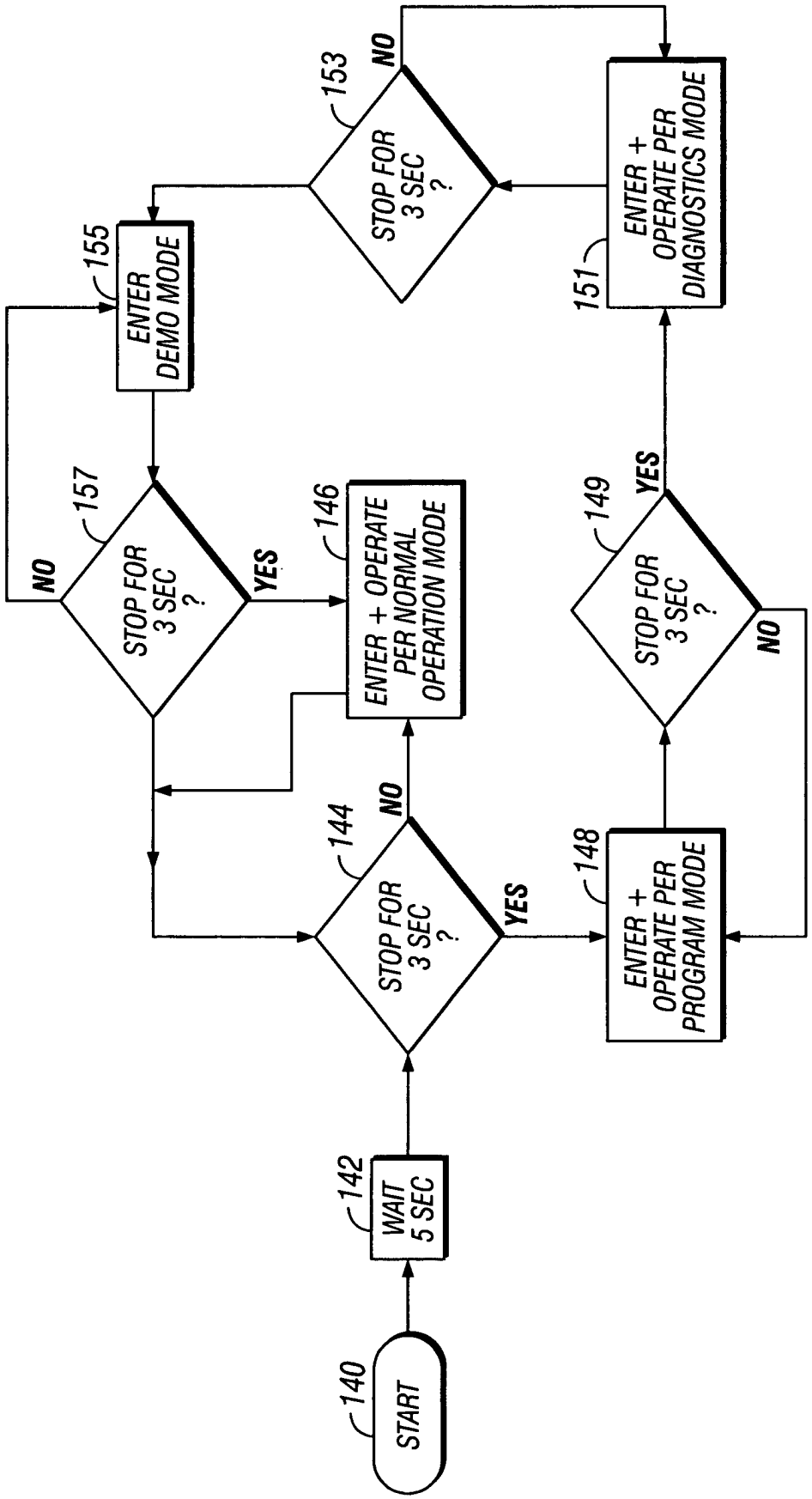

FIG. 12A

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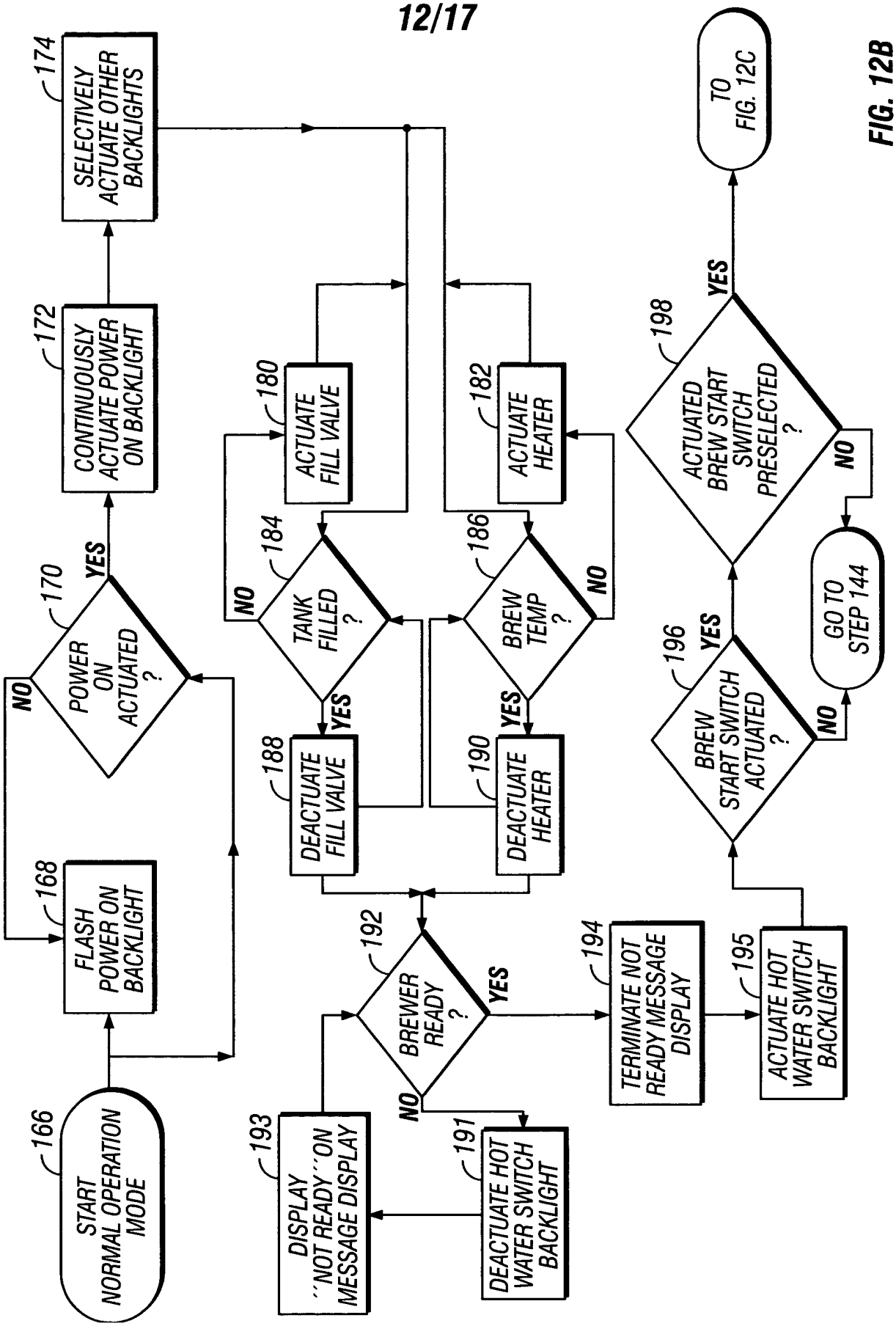

FIG. 12B

OIPE JC11
OCT 16 2003
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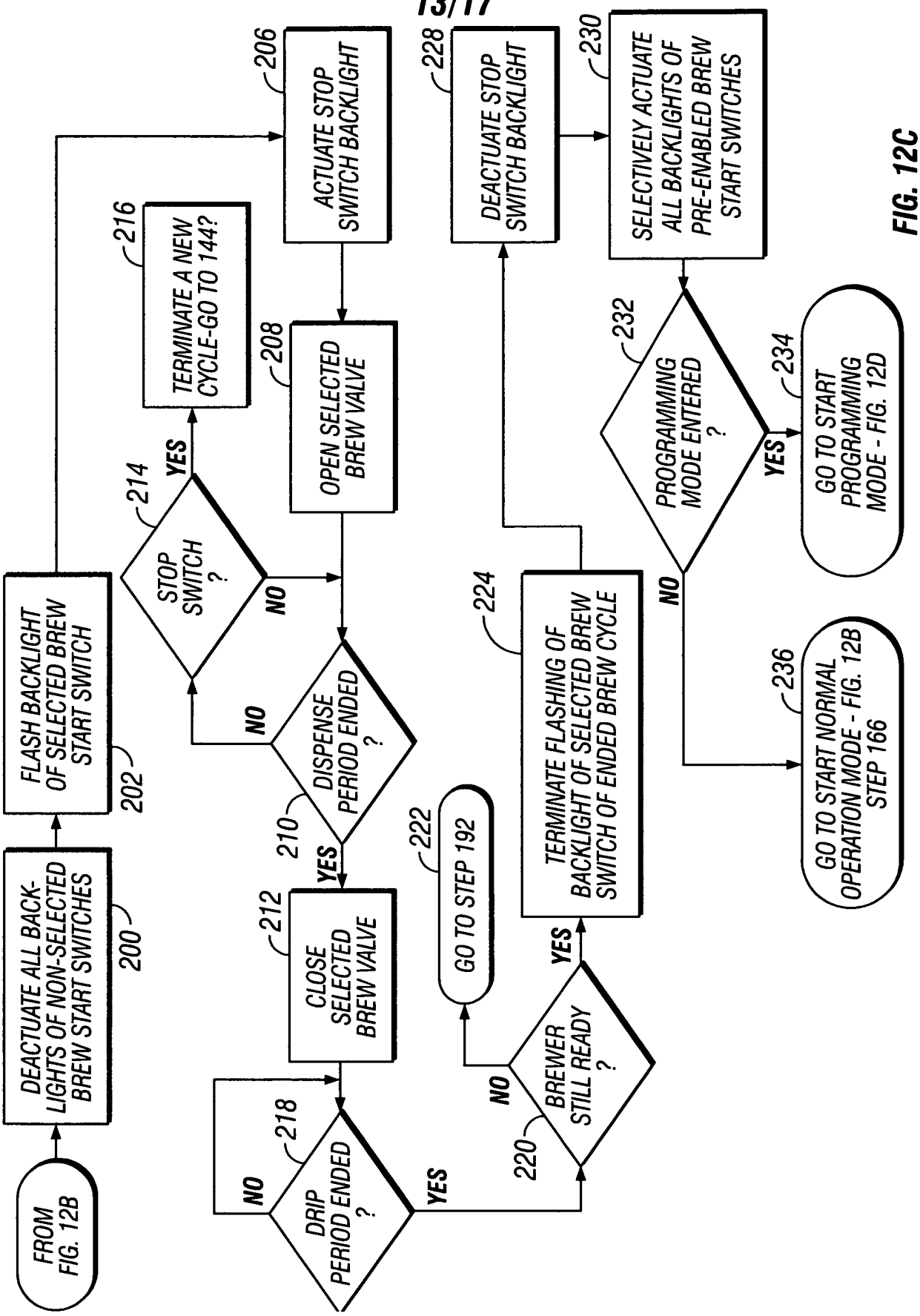

FIG. 12C

OCT 16 2003
PATENT & TRADEMARK OFFICE

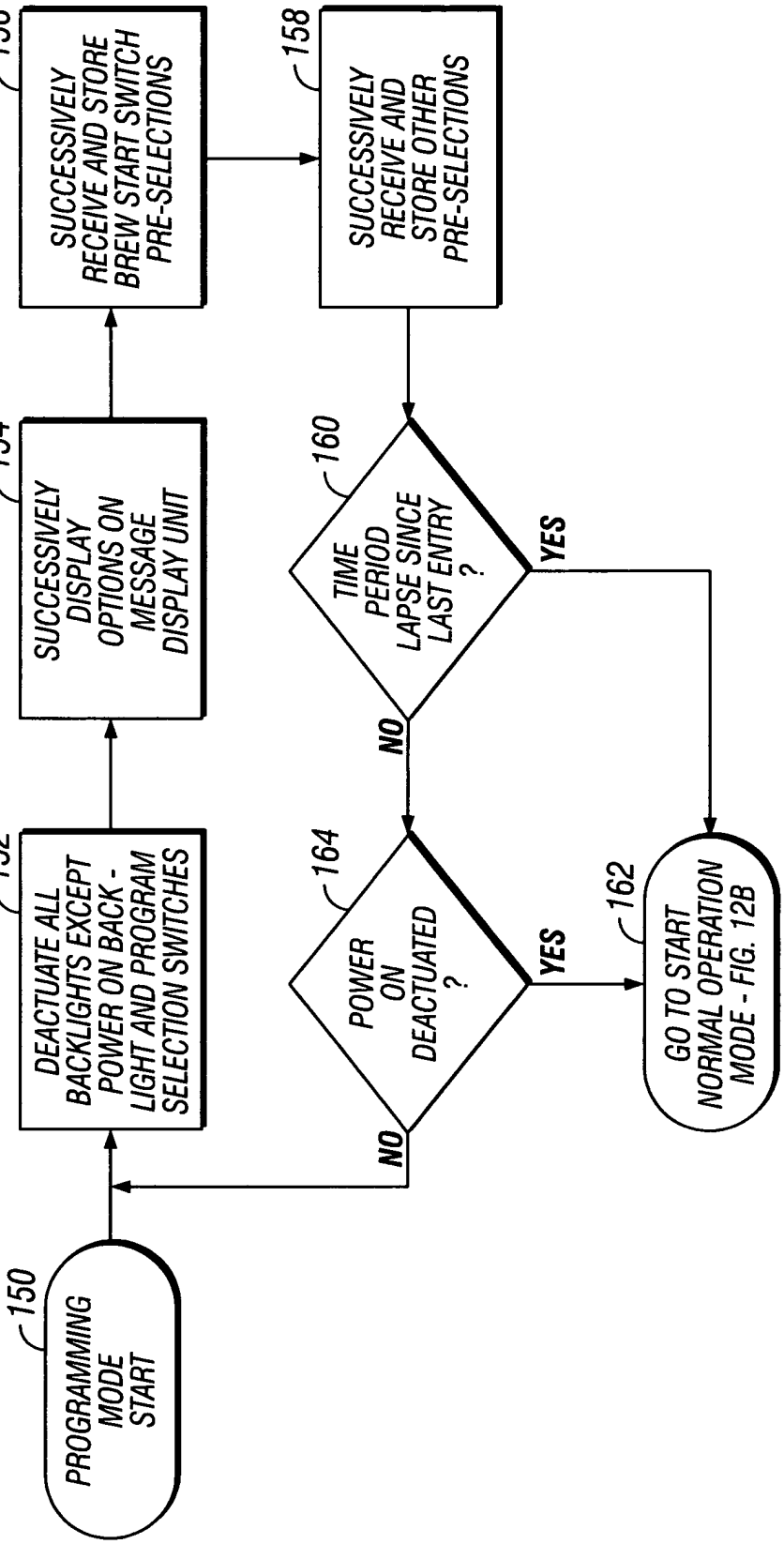

FIG. 12D

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ERROR CODES

				HOW TO CLEAR ERROR CODES	
CODE	**DESCRIPTION**	**POSSIBLE CAUSE**	**CORRECTIVE ACTION**	**SOFTWARE VER. 1.51 AND LOWER**	**SOFTWARE VER. 2.0 AND HIGHER**
001	INTERNAL ERROR SYSTEM HAD TO RELOAD DEFAULT SETTINGS.	CONTROL BOARD FAILURE.	CLEAR ERROR RE-PROGRAM THE BREWER TO THE DESIRED SPECIFICATIONS. IF ERROR OCCURS AGAIN, REPLACE CONTROL BOARD.	ENTER PROGRAMMING MODE, THEN EXIT PROGRAMMING MODE.	TURN MAIN POWER SWITCH OFF AND ON.
002	POWER FAILURE POWER STATE DOES NOT MATCH FEEDBACK LOOP STATE.	RELAY ON CONTROL BOARD HAS FAILED.	REPLACE CONTROL BOARD.	ENTER PROGRAMMING MODE, THEN EXIT PROGRAMMING MODE.	TURN MAIN POWER SWITCH OFF AND ON.
050	SHORTED TEMPERATURE PROBE.	PROBE FAILURE.	REPLACE PROBE.	ENTER PROGRAMMING MODE, THEN EXIT PROGRAMMING MODE.	TURN MAIN POWER SWITCH OFF AND ON.
051	OPEN TEMPERATURE PROBE.	BAD PROBE CONNECTION, OR PROBE FAILURE.	CHECK ALL CONNECTIONS. REPLACE PROBE IF NECESSARY.	ENTER PROGRAMMING MODE, THEN EXIT PROGRAMMING MODE.	TURN MAIN POWER SWITCH OFF AND ON.

FIG. 13A

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075	BREW BASKET LOCK OR SENSOR FAILURE. BASKET WAS IN PLACE WHEN BREW CYCLE STARTED, BUT WAS PULLED OUT DURING THE BREW CYCLE. IF THIS ERROR OCCURS, THE BREW BASKET LOCK HAS FAILED, OR THE SENSOR IS OUT OF ADJUSTMENT.	BREW BASKET LOCK HAS FAILED OR SENSOR NEEDS ADJUSTMENT.	REPAIR OR REPLACE BREW BASKET LOCK, OR ADJUST SENSOR.	PRESS THE FLASHING CONTROL PANEL POWER SWITCH TO RESUME OPERATION.	PRESS THE FLASHING CONTROL PANEL POWER SWITCH TO RESUME OPERATION.
100	INITIAL FILL ERROR INITIAL FILL TIME WAS MORE THAN 8.6 MINUTES.	WATER SUPPLY FLOW RATE IS TOO LOW.	WATCH FOR SHORT POTTING DURING BREW CYCLE. INVESTIGATE CAUSE OF LOW FLOW RATE. (CLOGGED WATER FILTER ETC.)	PRESS THE CONTROL PANEL POWER SWITCH.	PRESS THE CONTROL PANEL POWER SWITCH.
101	ERROR ON REFILL TANK DID NOT REFILL WITHIN 2 MINUTES.	WATER SUPPLY FLOW RATE IS TOO LOW.	WATCH FOR SHORT POTTING DURING BREW CYCLE. INVESTIGATE CAUSE OF LOW FLOW RATE. (CLOGGED WATER FILTER ETC.)	ERROR MESSAGE IS CLEARED AUTOMATICALLY AT END OF BREW CYCLE.	ERROR MESSAGE IS CLEARED AUTOMATICALLY AT END OF BREW CYCLE.
102	UNWANTED FILL WHEN BREWER IS IDLE, THE FILL VALVE WAS ACTIVATED FOR MORE THAN 30 SECONDS DURING A 1HOUR PERIOD.	POSSIBLE LEAK IN TANK, FITTING, OR VALVE.	CHECK INSIDE OF MACHINE FOR LEAKS.	ENTER PROGRAMMING MODE, THEN EXIT PROGRAMMING MODE.	TURN MAIN POWER SWITCH OFF AND ON.
		OUTPUT ON CONTROL BOARD HAS FAILED, CAUSING A DISPENSE VALVE TO OPEN.	REPLACE CONTROL BOARD.		

FIG. 13B

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200	FLAT LINE TEMPERATURE (WATER IS BOILING) SYSTEM IS CALLING FOR HEAT, BUT THE TEMPERATURE DOES NOT RISE AT LEAST 2°F WITHIN 5 MINUTES.	MERCURY RELAY IS STUCK CLOSED, BAD OUTPUT ON CONTROL BOARD, OR TEMPERATURE IS SET TOO HIGH FOR ALTITUDE.	CHECK MERCURY RELAY, CHECK CONTROL BOARD OUTPUT, OR ADJUST TEMPERATURE FOR ALTITUDE.	ENTER PROGRAMMING MODE, THEN EXIT PROGRAMMING MODE.	TURN MAIN POWER SWITCH OFF AND ON.
201	HEATER OPEN SYSTEM IS CALLING FOR HEAT, BUT THE TEMPERATURE DOES NOT RISE AT LEAST 2°F WITHIN 10 MINUTES. THIS ERROR IS DISABLED DURING BREWING AND WHILE USING THE HOT WATER FAUCET.	HEATING ELEMENT FAILURE.	CHECK AND REPLACE HEATING ELEMENTS IF NECESSARY.	ENTER PROGRAMMING MODE, THEN EXIT PROGRAMMING MODE.	TURN MAIN POWER SWITCH OFF AND ON.
202	HEATER SHORT SYSTEM IS NOT CALLING FOR HEAT, BUT TEMPERATURE RISES MORE THAN 5°F.	POSSIBLE MERCURY RELAY STUCK CLOSED, OR BAD OUTPUT ON CONTROL BOARD.	CHECK MERCURY RELAY AND CONTROL BOARD.	ENTER PROGRAMMING MODE, THEN EXIT PROGRAMMING MODE.	ENTER PROGRAMMING MODE, THEN EXIT PROGRAMMING MODE.
255	KEYPAD ERROR A SWITCH WAS PRESSED FOR MORE THAN 45 SECONDS.	SWITCH WAS HELD IN TOO LONG, OR SWITCH IS STUCK CLOSED.	CLEAR ERROR AND TRY AGAIN. IF ERROR OCCURS WITHOUT SWITCH BEING PRESSED, REPLACE INPUT BOARD.	ENTER PROGRAMMING MODE, THEN EXIT PROGRAMMING MODE.	TURN MAIN POWER SWITCH OFF AND ON.

FIG. 13C